

ABSTRACT

In the present invention, a method is proposed for performing a handover procedure for a mobile station (MS) communicating in a communication network and being movable therein, said communication network comprising a plurality of base transceiver stations being adapted to perform a communication with said mobile station (MS) within its coverage area, said method comprising the steps of processing (S3) location information related to the mobile station (MS) and position information related to the base transceiver stations (BTS 1A, BTS 1B, BTS 2, BTS 3), deciding (S4) on the basis of the result of said processing (S3), whether a first handover condition is fulfilled, designating (S9) a next base transceiver station in said communication network, to which the communication with said mobile station (MS) is to be directed from a current base transceiver station, when the first handover condition is fulfilled, triggering a handover (S10) of the communication connection of the mobile station (MS) from the current base transceiver station to the next base transceiver station designated in said designating step (S10), and performing (S11) the handover. Furthermore, a corresponding device for controlling said handover is proposed. The advantage of the present invention is, that base transceiver stations can be used which do not permanently transmit a broadcast control channel or which can be turned off, when no subscribers are within the coverage area.

30 **FIGURE 2**